

## **II. CLAIMS**

1. (Previously Presented) A system for providing wireless point-to-multipoint connections comprising an access point using full-duplex mode and terminals using half-duplex mode, wherein:

each of a plurality of the terminals has an equipment identifier,

each of said plurality of the terminals is arranged to classify itself as belonging to a first group of terminals or a second group of terminals based on said equipment identifier according to a predefined rule; and

the access point is arranged to send a first broadcast message to said first group of terminals and a second broadcast message to said second group of terminals, and

the access point is arranged to schedule the transmission period of at least one terminal of said second group to overlap at least partly with the transmission period of said first broadcast message.

2. (Previously Presented) A system according to claim 1, wherein the access point is arranged to schedule the transmission period of at least one terminal of said first group to overlap at least partly with the transmission period of said second broadcast message.

3. (Previously Presented) Access point of a point-to-multipoint wireless link system, wherein:

the access point is arranged to send a first broadcast message in a frame to a first group of terminals and a second broadcast message in said frame to a second group of terminals, and

the access point is arranged to schedule the transmission period of at least one terminal of said second group to overlap at least partly with the transmission period of said first broadcast message.

4. (Previously Presented) Terminal of a point-to-multipoint wireless link system, which terminal has an equipment identifier, wherein:

the terminal is arranged to classify itself as belonging to a first group of terminals or a second group of terminals based on the equipment identifier according to a predefined rule;

the terminal is arranged to receive a first broadcast message if it belongs to said first group and a second broadcast message if it belongs to said second group; and

a transmission period of the terminal is arranged to overlap at least partly with a transmission period of said first broadcast message if it belongs to said second group.

5. (Previously Presented) The terminal according to claim 4, wherein the terminal is arranged to perform the classification based on the value of the least significant bit of the identifier.

6. (Previously Presented) A method for providing wireless point-to-multipoint connections between an access point and a plurality of terminals, wherein:

the terminals are grouped into a first group and a second group, during a transmission frame,

the access point sends a first broadcast message to terminals in the first group and a second broadcast message to terminals in the second group, and

at least one of the terminals of the second group is scheduled to transmit during at least a part of the transmission period of said first broadcast message.

7. (Previously Presented) The method of claim 6, wherein at least one of the terminals of the first group is scheduled to transmit during at least a part of the transmission period of said second broadcast message.

8. (Previously Presented) The system of claim 1, wherein said broadcast message comprises of at least one of control information, or information about an access time slot, and said control information is composed of the identifier of the access point, identifier of the network operator, or identifier of the transmission sector.

9. (Previously Presented) The access point of claim 3, wherein said broadcast message comprises of at least one of control information, or information about an access time slot, and said control information is composed of the identifier of the access point, identifier of the network operator, or identifier of the transmission sector.

10. (Previously Presented) The terminal of claim 4, wherein said broadcast message comprises of at least one of control information, or information about an access time

slot, and said control information is composed of the identifier of the access point, identifier of the network operator, or identifier of the transmission sector.

11. (Previously Presented) The method of claim 6, wherein said broadcast message comprises of at least one of control information, or information about an access time slot, and said control information is composed of the identifier of the access point, identifier of the network operator, or identifier of the transmission sector.

12. (Previously Presented) The system of claim 1, comprising only a single access point.

13. (Previously Presented) The method of claim 6, comprising only a single access point.

14. (Previously Presented) The system of claim 1, wherein at least one of said broadcast messages comprises control information.

15. (Previously Presented) The access point of claim 3, wherein at least one of said broadcast messages comprises control information.

16. (Previously Presented) The terminal of claim 4, wherein at least one of said broadcast messages comprises control information.

17. (Previously Presented) The method of claim 6, wherein at least one of said broadcast messages comprises control information.